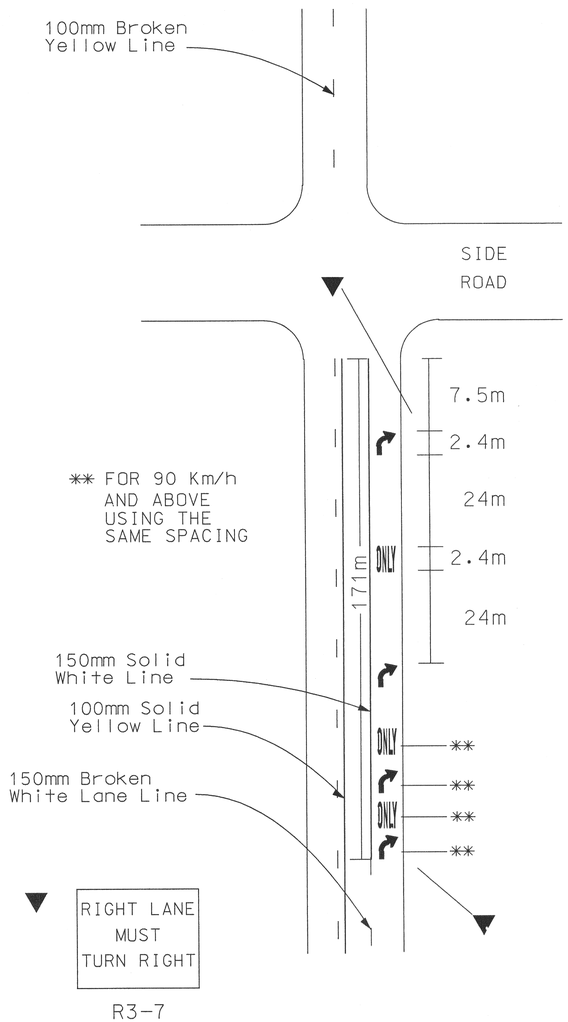
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	52 U-1785-01	2003	66	143

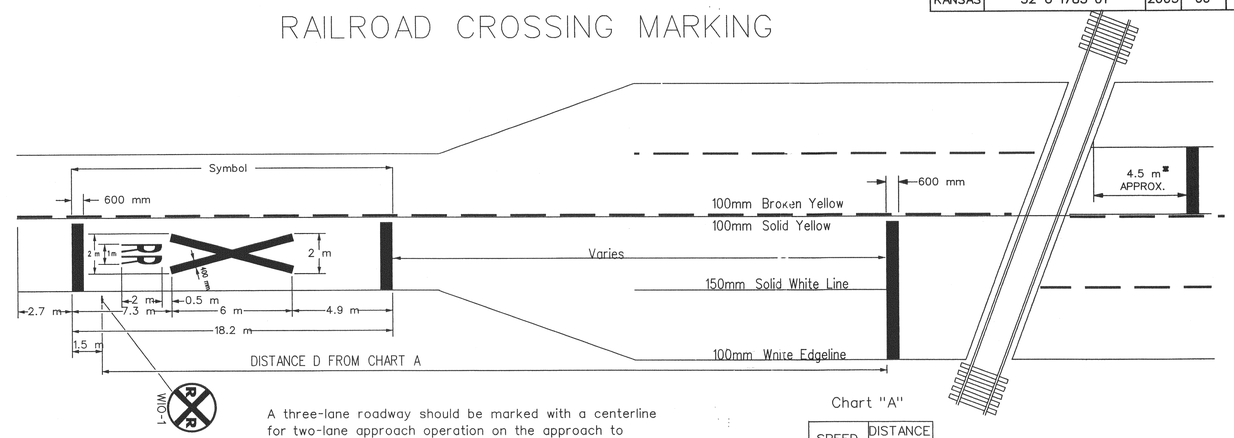
TYPICAL SIGNING AND MARKING FOR RIGHT LANE MUST TURN RIGHT



R3-7

SPEED CONVERSION CHART	
MPH	km/h
20	30
25	40
30	50
35	60
40	60
45	70
50	80
55	90
60	100
65	110
70	110

RAILROAD CROSSING MARKING



A three-lane roadway should be marked with a centerline for two-lane approach operation on the approach to a crossing.

On multi-lane roads the transverse bands should extend across all approach lanes, and individual R X R symbols should be used in each approach lane.

Refer to Standard Alphabet for Highway Signs and Markings for R X R symbols details.

* Stop line 2.5 m from near edge of gate or cantilever, if present.

Chart "A"

SPEED (km/h)	DISTANCE D (METERS)
110	265
90	210
80	190
70	165
60	145
50	100
40	75
30	55

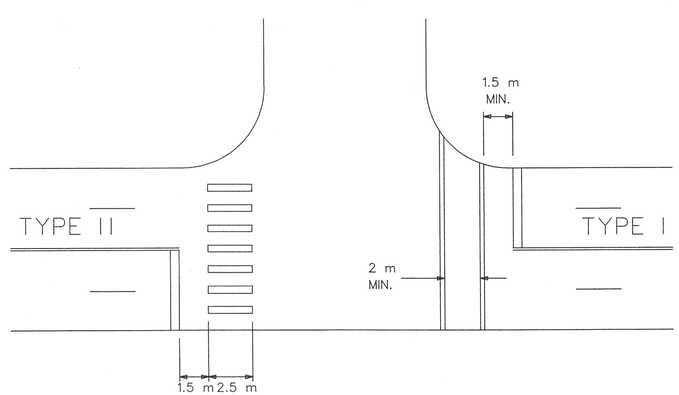
ALL DISTANCES ARE MINIMUM.

TYPICAL CROSSWALKS

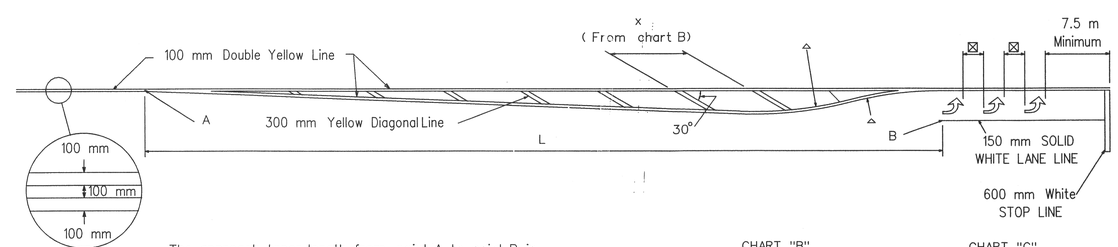
TYPE I: Crosswalk lines shall be 300 mm solid white lines. They shall be spaced a minimum of 2 m apart from inside edge to inside edge.

TYPE II: These lines should be solid white 600 mm wide placed parallel to the direction of traffic flow. The line placement is determined by lane line, center line, and wheel path in such a manner as to minimize traffic wear. The crosswalk width should be not less than 2.5 m. The transverse crosswalk lines may be added.

When required, Stop lines shall be installed a minimum of 1.5 m from crosswalks.



TYPICAL APPROACH TAPER DETAIL



The approach taper length from point A to point B is to be determined using CHART C. Values for L were calculated using the equations below and increased to the next higher 5 m increment.

- Speeds < 60 km/h $L=(S^2W)/157$
- Speeds > 70 km/h $L=(SW)/1.6$

⊠ If arrows are used and unless otherwise specified the space between lines should be at least four times the height of the characters for low speed roads but not more than ten times the height of the characters, under any conditions.

△ For speeds less than or equal to 60 km/h, R=45 m.
For speeds greater than or equal to 70 km/h, R=90 m.

CHART "B"

Approach Speed	X
30 km/h	6 m
40 km/h	8 m
50 km/h	10 m
60 km/h	12 m
70 km/h	14 m
80 km/h	16 m
90 km/h	18 m
100 km/h	20 m
110 km/h	22 m

CHART "C"

Approach Speed	
30 km/h	25m
40 km/h	40m
50 km/h	60m
60 km/h	85m
70 km/h	165m
80 km/h	185m
90 km/h	210m
100 km/h	235m
110 km/h	255m

NO.	DATE	REVISION	BY	APP'D
3	01/02/03	Added right lane must turn right & updated R/R	GJI	LGV
2	05/31/01	Renamed Charts & Upgraded R/R Standard	GJI	
1	09/04/96	ADDED STOP LINE NOTE ON RAILROAD DETAIL	GSB	

KANSAS DEPARTMENT OF TRANSPORTATION
TYPICAL
MISCELLANEOUS
PAVEMENT MARKING
DETAIL SHEET

TE309SI 05/12/94

FHWA APPROVAL		01/17/03		APP'D	JAMES E. TOBABEN		
DESIGNED	JFF	DETAILED	GSB	QUANTITIES		TRACED	
DESIGN CK.	JET	DETAIL CK.	JFF	QUAN. CK.		TRACE CK.	

REFERENCES NOTED	BY	DATE
	M Adams	9-01
REFERENCES CHECKED	R. Stegman	11-01

Plotted : 4/6/2004
Drawn By : rstegman
File : p:\01541\01541 te309si.dgn
Section : $$$$KDOTGRP$$$$